



Express Mailing Label No. EV 460179815 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/655,904

Applicant : James D. Parsons

Filed : Sept. 5, 2003

TC/A.U. : 2884

Examiner : Otilia Gabor

Docket No. : 378-21-034

Customer No. : 23935

Title: ACOUSTIC ABSORPTION RADIATION SENSING IN SiC

Mail Stop Appeal Brief - Patents

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

REPLY BRIEF

The argument presented in the Examiner's Answer up to page 6, line 7 restates the reasons for rejection set forth in the Final Office action. Since this was addressed in the Appeal Brief, it will not be discussed further in this Reply Brief.

Beginning at page 6, line 7, dealing with claim 7 on the thickness of the SiC body being uniform and claim 8 on the SiC body having a flat radiation receiving surface, the Examiner's Answer contends that a circular body as disclosed by the Ichikawa reference has a uniform thickness and is also flat. In addition to the argument presented in the Appeal Brief that the commonly accepted meanings of "flat" and "uniform thickness" would exclude a circular body, applicant's specification also makes it clear that a "flat" SiC body having a "uniform thickness" would not be satisfied by the circular body of Ichikawa.

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Page 4, lines 19-24 of the application states:

"The amount of acoustic absorption progressively increases as the SiC thickness increases above the threshold of about 200 micrometers, and approaches a maximum absorption level at about 2,000 micrometers thickness. A preferred thickness range is about 400-2,000 micrometers."

Page 6, lines 30-35 states:

"The thickness of the SiC body 6 is preferably at least approximately uniform with a major surface facing the beam 4 that is at least approximately flat. This provides for an acoustic absorption that is at least approximately uniform over a cross-section of the SiC body parallel to its major flat surface." (referring to FIG. 1.)

Contrary to this description in the specification of achieving "an acoustic absorption that is approximately uniform", the circular body of Ichikawa would not exhibit a uniform acoustic absorption over a cross-section of the SiC body parallel to any major flat In fact, the circular Ichikawa body has surface. "major flat" surface such as the large area flat surface facing the beam in illustrative FIG. 1. Rather, since the maximum disclosed or suggested diameter for is 200 micrometers, circular body of Ichikawa clear that a useful appellant's specification makes acoustic absorption mechanism can be obtained from single crystal SiC if "its thickness is at least about 200 micrometers", the circular Ichikawa body would at best exhibit only a very low level of acoustic absorption along a diameter parallel to the irradiating beam (see specification page 4, lines 7-12). At all other points

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in the Ichikawa body off the beam-parallel diameter, where the thickness of the body progressively parallel to the beam reduces the further one moves away from the beam-parallel diameter, the beam-parallel thickness of the body would be less than 200 micrometers.

The circular Ichikawa body will thus at best exhibit acoustic absorption only along a center diameter parallel to the beam, with no observable acoustic absorption at other locations. Even if some slight acoustic absorption were observed in the area of the beam-parallel diameter, it would progressively diminish away from that diameter because of the progressive reduction in the thickness of the body away from the beam-parallel diameter. Thus, any attempt to define the circular body of Ichikawa as being "flat" and having a "uniform thickness" would directly contradict the description of these qualities given in the specification itself as resulting in "an acoustic absorption that is at least approximately uniform".

Request for Refund of Excess Fees

Appellant feels he has been overcharged in connection with this appeal, and requests a refund.

Fee for Filing Notice of Appeal

Appellant paid the (small entity) Notice of Appeal and Appeal Brief fees in connection with the original Notice of Appeal filed September 12, 2005 and the Appeal Brief filed November 4, 2005. The Examiner thereafter reopened prosecution with a new Final Office Action dated December 1, 2005, which corrected for an error in the original Final Action that was noted in appellant's original appeal brief, and also for an omission in

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stating a reason for the rejection of certain dependant claims in the original Final Action.

The undersigned was advised by the Office that the proper procedure would be to file a new appeal in response to the new Final Office Action, and this was done on January 9, 2006. At the same time Appellant filed a request for a waiver of additional appeal fees since the need to file a new Notice of Appeal and Appeal Brief arose through errors on the part of the Office, and the original appeal had not yet been considered by the Board. However, the undersigned's Deposit Account was charged a second Notice of Appeal fee on January 12, 2006.

2) An Amendment filed January 9, 2006, the same day as the second Notice of Appeal and Appeal Brief, amended dependant claim 6 to independent form and was accompanied by a check in payment of the extra independent claim fee. However, on January 18, 2006 the undersigned's Deposit Account was charged the fee for adding two excess independent claims, whereas only one independent claim had been added and had already been paid for.

Respectfully submitted,

Dated: 4/7/06

Richard S. Koppel // Registration No. 26,475

Attorney for Appellant

KOPPEL, PATRICK & HEYBL 555 St. Charles Drive, Suite 107 Thousand Oaks, California 91360 Telephone (805) 373-0060 (U:MR/RSK/Amendments/Reply Brief/378-21-034)

PTO/SB/21 (09-04)

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TPANSMITTAL		Application Number	10/655,904		
TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Filing Date	September 5, 2003	tember 5, 2003	
		First Named Inventor	James D. Parsons		
		Art Unit	2884		
		Examiner Name	Otilia Gabor		
Total Number of Pages in This Submission	7	Attorney Docket Number	378-21-034		

ENCLOSURES (Check all that apply)								
	Fee Transmittal Form Fee Attached Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53	Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Ad Terminal Disclaimer Request for Refund CD, Number of CD(s) Landscape Table on CD Remarks	[[[[[[[[[[[[[[[[[[[After Allowance Communication to TC Appeal Communication to Board of Appeals and Interferences Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please Identify below): -Itemized Postcard				
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT								
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	Signature Reclicerd L. Kazel							
Printe	Printed name Richard S. Koppel							
Date	4/2/06	R	eg. No.	26,475				
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PTO/SB/17 (01-06) Approved for use through 07/31/2006. OMB 0651-0032 Express Mail Label No. EV 460179815 US U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it displays a valid OMB control number Complete if Known Fees pursuant to e Consolidated Appropriations Act, 2005 (H.R. 4818). 10/655,904 **Application Number** September 5, 2003 Filing Date APR 0 7 2006 For FY 2006 James D. Parsons First Named Inventor **Examiner Name** Otilia Gabor aims small entity status. See 37 CFR 1.27 Art Unit 2884 TOTAL AMOUNT OF PAYMENT 378-21-034 Attorney Docket No. METHOD OF PAYMENT (check all that apply) Other (please identify): Credit Card Money Order None Check Deposit Account Name: Richard S. Koppel Deposit Account Deposit Account Number: 11-1580 For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below, except for the filing fee Charge fee(s) indicated below Charge any additional fee(s) or underpayments of fee(s) Credit any overpayments under 37 CFR 1.16 and 1.17 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.) 1. BASIC FILING, SEARCH, AND EXAMINATION FEES SEARCH FEES **EXAMINATION FEES FILING FEES Small Entity Small Entity Small Entity** Fees Paid (\$) Fee (\$) **Application Type** Fee (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) 200 100 500 300 150 250 Utility 130 65 200 100 100 50 Design 160 80 300 Plant 200 100 150 600 300 500 250 300 150 Reissue 0 0 0 200 100 Provisional Small Entity 2. EXCESS CLAIM FEES Fee (\$) Fee (\$) Fee Description 50 25 Each claim over 20 (including Reissues) 100 200 Each independent claim over 3 (including Reissues) 360 180 Multiple dependent claims **Multiple Dependent Claims** Fee Paid (\$) **Total Claims Extra Claims** Fee (\$) Fee Paid (\$) Fee (\$) HP = highest number of total claims paid for, if greater than 20. Fee Paid (\$) Fee (\$) **Extra Claims** <u>Indep. Claims</u> HP = highest number of independent claims paid for, if greater than 3. 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Number of each additional 50 or fraction thereof Fee Paid (\$) Fee (\$) Extra Sheets **Total Sheets** (round up to a whole number) x Fees Paid (\$) 4. OTHER FEE(S) Non-English Specification, \$130 fee (no small entity discount) Other (e.g., late filing surcharge):

SUBMITTED BY	0	4		
	Villa del Vous	Registration No. (Attorney/Agent) 26,475	Telephone (805) 373-0060	
Signature	APGLAM, A (S)		(Attorney/Agent)	Date 4/5/06
Name (Print/Type	Richard S. Koppel			11/1/20

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.